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Ser. No. 10/823,228
Examiner Samuel A. Waldbaum

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In the Claims

Claims 1-27, Canceled

28. (Currently Amended) A cleaning appliance for cleaning a load of objects comprising:

a wash chamber defining a wash zone for accepting said load of objects;
a dispenser for applying wash liquor to said wash chamber;
a sump for collecting wash liquor that has been applied to said wash chamber; and
a chemical generating device for generating an oxidizing agent for dispensing into said wash liquor; and
an oxidation reduction potential sensor.

29. (Original) A cleaning apparatus according to claim 28 wherein said objects are fabric and said cleaning apparatus is an automatic washer.

30. Canceled.

31. (Withdrawn) A cleaning apparatus according to claim 28 wherein said objects are foodware and said automatic cleaning apparatus is an automatic dishwasher.

32. Canceled.

33. (Currently Amended) A cleaning apparatus according to claim ~~32~~ 28, wherein ~~said means for applying energy comprises~~ further comprising a heater adapted to heat said wash liquor, said oxidizing agent being applied to said load of objects after said heater is deactivated.

34. (Original) A cleaning apparatus according to claim 28, wherein said oxidizing agent is introduced to said wash chamber in a lower region of said wash zone.

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35. (Withdrawn) A cleaning apparatus according to claim 28, wherein said chemical generating device creates said oxidizing agent from wash liquor in said sump.

36. (Original) A cleaning apparatus according to claim 28, wherein said oxidizing agent comprises hydrogen peroxide.

37. (Original) A cleaning apparatus according to claim 36, wherein said hydrogen peroxide is introduced in said wash liquor at a concentration in the range of 10 to 10000 parts per million.

38. (Original) A cleaning apparatus according to claim 36, wherein said hydrogen peroxide is activated in said chemical generating device through contact with chemically modified surfaces to form hydroxyl radicals.

39. (Original) A cleaning apparatus according to claim 36, further comprising a water supply line for providing water to be used in said wash liquor, and further wherein said chemical generating device generates said hydrogen peroxide through electrolysis of water introduced through said water supply line.

40. (Original) A cleaning apparatus according to claim 28, further comprising a water supply line for providing water to be used in said wash liquor, and further wherein said chemical generating device generates said hydrogen peroxide through electrolysis of water introduced through said water supply line.

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41. (Currently Amended) An automatic cleaning appliance comprising:

a wash zone arranged to receive a load of objects to be cleaned and a wash liquor to be applied to the load of objects in said wash zone;

a water supply line communicating with said wash zone;

a hydrogen peroxide generator arranged to receive a supply of water from said water supply line, wherein the hydrogen peroxide generator is in communication with the wash zone;

~~a conduit leading from said hydrogen peroxide generator to said wash zone; and~~

a lockout mechanism in communication with a chemical concentration sensor.

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42. (Currently Amended) An automatic cleaning appliance comprising:
a wash zone arranged to receive a load of objects to be cleaned and a wash liquor to be applied to the load of objects in said wash zone;
a chemical generating device ~~arranged in association with said appliance in~~
communication with the wash zone to generate an oxidizing agent; and
~~a conduit leading from said chemical generating device to said wash zone; and~~
a fluid conditioning device.
43. (New) The automatic cleaning device of claim 28, further comprising a fluid conditioning device.
44. (New) The automatic cleaning device of claim 28, further comprising a pump.
45. (New) The automatic cleaning device of claim 28, wherein the chemical generating device comprises a storage space.
46. (New) The automatic cleaning device of claim 45, wherein the storage space comprises at least one of a salt composition and a catalyst.
47. (New) The automatic cleaning device of claim 38, wherein the chemically modified surface comprises titanium dioxide.
48. (New) The automatic cleaning device of claim 38, further comprising a centrifugal switch to control activation of the oxidizing agent.
49. (New) The automatic cleaning device of claim 41, wherein said objects are foodware and said automatic cleaning apparatus is an automatic dishwasher.
50. (New) The automatic cleaning device of claim 41, further comprising a chemical concentration sensor.

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51. (New) The automatic cleaning device of claim 41, further comprising a pump.
52. (New) The automatic cleaning device of claim 41, wherein the chemical generating device comprises a storage space.
53. (New) The automatic cleaning device of claim 52, wherein the storage space comprises at least one of a salt composition and a catalyst.
54. (New) The automatic cleaning device of claim 41, further comprising a fluid conditioning device.
55. (New) The automatic cleaning device of claim 41, wherein said oxidizing agent is activated in said chemical generating device through contact with chemically modified surfaces to form hydroxyl radicals.
56. (New) The automatic cleaning device of claim 55, wherein the chemically modified surface comprises titanium dioxide.
57. (New) The automatic cleaning device of claim 42, wherein said objects are foodware and said automatic cleaning apparatus is an automatic dishwasher.
58. (New) The automatic cleaning device of claim 42, further comprising a chemical concentration sensor.
59. (New) The automatic cleaning device of claim 42, further comprising a pump.
60. (New) The automatic cleaning device of claim 42, wherein the chemical generating device comprises a storage space.

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61. (New) The automatic cleaning device of claim 60, wherein the storage space comprises at least one of a salt composition and a catalyst.

62. (New) The automatic cleaning device of claim 42, further comprising a fluid conditioning device.

63. (New) The automatic cleaning device of claim 42, wherein said oxidizing agent is activated in said chemical generating device through contact with chemically modified surfaces to form hydroxyl radicals.

64. (New) The automatic cleaning device of claim 63, wherein the chemically modified surface comprises titanium dioxide.